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### 21 [Process migration](#)

[Dejan S. Milojević](#), [Fred Douglass](#), [Yves Paindaveine](#), [Richard Wheeler](#), [Songnian Zhou](#)  
September **Computing Surveys (CSUR)**, Volume 32 Issue 3  
2000

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (1.24 MB) [Additional Information: full citation, abstract, references, cited by, index terms, review](#)

**Bibliometrics:** Downloads (6 Weeks): 84, Downloads (12 Months): 699, Citation Count: 40

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has ...

**Keywords:** distributed operating systems, distributed systems, load distribution, process migration

### 22 [Translating XSLT programs to Efficient SQL queries](#)

[Sushant Jain](#), [Ratul Mahajan](#), [Dan Suciu](#)

May **WWW '02: Proceedings of the 11th international conference on World Wide Web**

**Publisher:** ACM

Full text available: Pdf (171.64 KB) [Additional Information: full citation, abstract, references, cited by, index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 36, Citation Count: 13

We present an algorithm for translating XSLT programs into SQL. Our context is that of virtual XML publishing, in which a single XML view is defined from a relational database, and subsequently queried with XSLT programs. Each XSLT program is translated ...

**Keywords:** SQL, XML, XSLT, query optimization, translation, virtual view

23 'Gcalculator': functional prototype of a Galois-connection based proof assistant



Paulo F. Silva, José N. Oliveira

July **PPDP '08: Proceedings of the 10th international ACM SIGPLAN conference 2008 on Principles and practice of declarative programming**

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (685.23 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 75, Citation Count: 0

*Gcalculator* is the name of the prototype of a proof assistant of a special brand: it is solely based on the algebra of Galois connections. When combined with the *pointfree* transform and tactics such as the *indirect equality* principle, ...

**Keywords:** DSL, GADT, Galois connections, haskell, point-free notation, proof assistant

24 The next 700 data description languages



Kathleen Fisher, Yitzhak Mandelbaum, David Walker

January **POPL '06: Conference record of the 33rd ACM SIGPLAN-SIGACT 2006 symposium on Principles of programming languages**

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (1.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 83, Citation Count: 8

In the spirit of Landin, we present a calculus of dependent types to serve as the semantic foundation for a family of languages called *data description languages*. Such languages, which include pads, datascript, and packettypes, ...

**Keywords:** data description language, dependent types, domain-specific languages

Also published in:

January 2006 **SIGPLAN Notices** Volume 41 Issue 1

25 Engineering large-scale distributed auctions

Peter Gradwell, Michel Oey, Reinier Timmer, Frances Brazier, Julian Padget

May **AAMAS '08: Proceedings of the 7th international joint conference on Autonomous agents and multiagent systems - Volume 3**, Volume 3

**Publisher:** International Foundation for Autonomous Agents and Multiagent Systems

Full text available: Pdf (552.18 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 54, Citation Count: 0

The functional characteristics of market-based solutions are typically best observed through the medium of simulation, data-gathering and subsequent visualization. We previously developed a simulation of multiple distributed auctions to handle resource ...

**Keywords:** AgentScape, auctions, distributed systems, multi-agent systems, performance, refactoring, simulation

- 26 [simpA: an agent-oriented approach for prototyping concurrent applications on top of Java](#)



[Alessandro Ricci](#), [Mirko Viroli](#)

September **PPPJ '07**: Proceedings of the 5th international symposium on  
2007 Principles and practice of programming in Java

**Publisher:** ACM

Full text available: Pdf (655.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 31, Citation Count: 2

More and more aspects of concurrency and concurrent programming are becoming part of mainstream programming and software engineering, as a result of several factors, such as the widespread availability of multi-core / parallel architectures and Internet-based ...

**Keywords:** agents & artifacts, concurrent programming, simpA

- 27 [A proactive middleware platform for mobile computing](#)

[Andrei Popovici](#), [Andreas Frei](#), [Gustavo Alonso](#)

June **Middleware '03**: Proceedings of the ACM/IFIP/USENIX 2003 International  
2003 Conference on Middleware

**Publisher:** Springer-Verlag New York, Inc.

Full text available: Pdf (301.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 20, Citation Count: 1

An obvious prerequisite for mobile computing devices is the ability to adapt to different computing environments. Otherwise the devices are forced to carry with them everything they may eventually need during their operational life time. This is neither ...

## 28 [Explicitly distributed AOP using AWED](#)



[Luis Daniel Benavides Navarro](#), [Mario Südholt](#), [Wim Vanderperren](#), [Bruno De Fraine](#),  
[Davy Suvée](#)

March 2006 **AOSD '06: Proceedings of the 5th international conference on Aspect-oriented software development**

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (373.80 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 74, Citation Count: 13

Distribution-related concerns, such as data replication, often crosscut the business code of a distributed application. Currently such crosscutting concerns are frequently realized on top of distributed frameworks, such as EJBs, and initial AO support ...

**Keywords:** AWED, aspects, distributed execution, distributed language constructs, remote pointcuts

## 29 [Self](#)



[David Ungar](#), [Randall B. Smith](#)

June 2007 **HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages**

**Publisher:** ACM [Request Permissions](#)

Full text available: Mov (53:9 MIN), Pdf (1.70 MB) **Additional Information:** [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 59, Downloads (12 Months): 494, Citation Count: 1

The years 1985 through 1995 saw the birth and development of the language Self, starting from its design by the authors at Xerox PARC, through first implementations by Ungar and his graduate students at Stanford University, and then with a larger team ...

**Keywords:** Self, adaptive optimization, cartoon animation, dynamic language, dynamic optimization, exploratory programming, history of programming languages, morphic, object-oriented language, programming environment, prototype-based programming language, virtual machine

30 [Automatic program specialization for Java](#)



[Ulrik P. Schultz](#), [Julia L. Lawall](#), [Charles Consel](#)

July **Transactions on Programming Languages and Systems (TOPLAS)**,  
2003 Volume 25 Issue 4

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (1.18 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 85, Citation Count: 13

The object-oriented style of programming facilitates program adaptation and enhances program genericness, but at the expense of efficiency. We demonstrate experimentally that state-of-the-art Java compilers fail to compensate for the use of object-oriented ...

**Keywords:** Automatic program specialization, Java, object-oriented languages, optimization, partial evaluation

31 [Business-to-business interactions: issues and enabling technologies](#)

[B. Medjahed](#), [B. Benatallah](#), [A. Bouguettaya](#), [A. H. H. Ngu](#), [A. K. Elmagarmid](#)

May **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available: Pdf (558.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 66, Downloads (12 Months): 858, Citation Count: 27

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business ...

**Keywords:** B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

32 [Graphical animation of behavior models](#)



[Jeff Magee](#), [Nat Pryce](#), [Dimitra Giannakopoulou](#), [Jeff Kramer](#)

June **ICSE '00: Proceedings of the 22nd international conference on Software engineering**

**Publisher:** ACM

Full text available: Pdf (330.44 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 55, Citation Count: 15

Graphical animation is a way of visualizing the behavior of design models. This visualization is of use in validating a design model against informally specified requirements and in interpreting the meaning and significance of analysis results in relation ...


**Keywords:** behavior analysis, graphic animation, labeled transition system

### 33 [Code patterns for agent-oriented programming](#)

[Peter Novák](#), [Wojciech Jamroga](#)

May 2009 **AAMAS '09: Proceedings of The 8th International Conference on Autonomous Agents and Multiagent Systems - Volume 1**, Volume 1

**Publisher:** International Foundation for Autonomous Agents and Multiagent Systems

Full text available:  [Pdf](#) (292.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 27, Citation Count: 0

The mainstream approach to *design of BDI-inspired agent programming languages* is to choose a set of agent-oriented features with a particular semantics and their subsequent implementation in the programming language interpreter. The language designer's ...

**Keywords:** agent-oriented programming, ai, code patterns, description level: methodologies and languages, focus: agent programming languages, inspiration source: robotics, temporal logic


### 34 [Computing with subspaces](#)



[Sergio Antoy](#), [Bernd Braßel](#)

July 2007 **PPDP '07: Proceedings of the 9th ACM SIGPLAN international symposium on Principles and practice of declarative programming**

**Publisher:** ACM 

Full text available:  [Pdf](#) (248.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 22, Citation Count: 1

We propose a new definition and use of a primitive **getAllValues**, for computing all the values of a non-deterministic expression in a functional logic program. Our proposal restricts the validity of the argument of **getAllValues**. This restriction ...

**Keywords:** functional logic programming languages, non-determinism, rewrite systems, subspaces


### 35 [Static specification mining using automata-based abstractions](#)



[Sharon Shoham](#), [Fran Yahav](#), [Stephen Fink](#), [Marco Pistola](#)

July 2007 **ISSTA '07: Proceedings of the 2007 international symposium on Software testing and analysis**

**Publisher:** ACM 

Full text available:  [Pdf](#) (333.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 104, Citation Count: 4

We present a novel approach to client-side mining of temporal API specifications based on static analysis. Specifically, we present an interprocedural analysis over a combined domain that abstracts both aliasing and event sequences for individual objects. ...

**Keywords:** abstract interpretation, specification mining, static analysis, typestate

36 [SmartMethod: an efficient replacement for method](#)



[Walter Cazzola](#)

March **SAC '04**: Proceedings of the 2004 ACM symposium on Applied computing 2004

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (220.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 11, Citation Count: 1

In the last few years the interest in reflection has grown and many modern programming languages/architectures have provided the programmer with reflective mechanisms. As well as any other novelty also reflection has detractors. They rightly or wrongly ...

**Keywords:** Java, Java Core Reflection Library, optimization, reflection

37 [Addressing concurrency in object-oriented software development](#)



[Jörg Kienzie](#), [Shane Sendall](#)

October **CASCON '06**: Proceedings of the 2006 conference of the Center for 2006 Advanced Studies on Collaborative research

**Publisher:** ACM

Full text available: [Html](#) (1.41 KB), [Pdf](#) (691.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 37, Citation Count: 0

E-business software systems are typically incorporated in complex concurrent and interacting business activities. Understanding the concurrent and interactive demands of the environment and tracing these requirements down to implementation is an important ...

38 [Implementing declarative overlays](#)



[Boon Thau Loo](#), [Tyson Condie](#), [Joseph M. Hellerstein](#), [Petros Maniatis](#), [Timothy Roscoe](#), [Ion Stoica](#)

October **SOSP '05**: Proceedings of the twentieth ACM symposium on Operating 2005 systems principles

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (370.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 133, Citation Count: 28

Overlay networks are used today in a variety of distributed systems ranging from file-sharing and storage systems to communication infrastructures. However, designing, building and adapting these overlays to the intended application and the target environment ...

**Keywords:** dataflow engines, declarative overlays, executable pseudocode

Also published in:

October 2005 **SIGOPS Operating Systems Review** Volume 39 Issue 5

39 [SoSAA: a framework for integrating components & agents](#)



Mauro Dragone, David Lillis, Rem Collier, G. M. P. O'Hare

March **SAC '09: Proceedings of the 2009 ACM symposium on Applied Computing 2009**

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (291.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 41, Citation Count: 0

Modern computing systems require powerful software frameworks to ease their development and manage their complexity. These issues are addressed within both Component-Based Software Engineering and Agent-Oriented Software Engineering, although few integrated ...

**Keywords:** agent oriented software engineering, agent programming toolkit, component based software engineering, component framework

40 [A comprehensive approach for the development of modular software architecture description languages](#)



Eric M. Dashofy, André van der Hoek, Richard N. Taylor

April **Transactions on Software Engineering and Methodology (TOSEM)**, 2005 Volume 14 Issue 2

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (3.51 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 53, Downloads (12 Months): 354, Citation Count: 10

Research over the past decade has revealed that modeling software architecture at the level of components and connectors is useful in a growing variety of contexts. This has led to the development of a plethora of notations for representing software ...

**Keywords:** ArchStudio 3, Architecture description languages, XML, xADL 2.0

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